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16000

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/896,095

DATE: 06/03/2003

TIME: 11:15:35

Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\06032003\I896095.raw

3 <110> APPLICANT: LADNER, Charles C.
4 GUTERMAN, Sonia K.
5 ROBERTS, Bruce L.
6 MARKLAND, William
7 LEY, Arthur C.
8 KENT, Rachel B.
10 <120> TITLE OF INVENTION: DIRECTED EVOLUTION OF NOVEL BINDING PROTEINS
12 <130> FILE REFERENCE: LADNER=7L
14 <140> CURRENT APPLICATION NUMBER: 09/896,095
15 <141> CURRENT FILING DATE: 2001-06-29
17 <150> PRIOR APPLICATION NUMBER: 08/415,922
18 <151> PRIOR FILING DATE: 1995-03-04
20 <150> PRIOR APPLICATION NUMBER: 08/009,319
21 <151> PRIOR FILING DATE: 1993-01-26
23 <150> PRIOR APPLICATION NUMBER: 07/664,989
24 <151> PRIOR FILING DATE: 1991-03-01
26 <150> PRIOR APPLICATION NUMBER: 08/993,776
27 <151> PRIOR FILING DATE: 1997-12-18
29 <160> NUMBER OF SEQ ID NOS: 274
31 <170> SOFTWARE: PatentIn version 3.2
33 <210> SEQ ID NO: 1
34 <211> LENGTH: 28
35 <212> TYPE: PRT
36 <213> ORGANISM: Artificial
38 <220> FEATURE:
39 <223> OTHER INFORMATION: synthetic - zinc finger consensus
42 <220> FEATURE:
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44 <222> LOCATION: (2)..(2)
45 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
47 <220> FEATURE:
48 <221> NAME/KEY: misc_feature
49 <222> LOCATION: (4)..(5)
50 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
52 <220> FEATURE:
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54 <222> LOCATION: (7)..(9)
55 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
57 <220> FEATURE:
58 <221> NAME/KEY: misc_feature
59 <222> LOCATION: (11)..(15)
60 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
62 <220> FEATURE:

pr 6-7
ENTERED

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Input Set : A:\sequence listing.txt
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63 <221> NAME/KEY: misc_feature
64 <222> LOCATION: (17)..(18)
65 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
67 <220> FEATURE:
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70 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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74 <222> LOCATION: (24)..(28)
75 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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80 1 5 10 15
83 Xaa Xaa His Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa Xaa
84 20 25
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89 <212> TYPE: PRT
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99 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
101 <220> FEATURE:
102 <221> NAME/KEY: misc_feature
103 <222> LOCATION: (4)..(5)
104 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
106 <220> FEATURE:
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108 <222> LOCATION: (7)..(9)
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123 <222> LOCATION: (20)..(22)
124 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
126 <220> FEATURE:
127 <221> NAME/KEY: misc_feature
128 <222> LOCATION: (24)..(28)

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129 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 131 <400> SEQUENCE: 2

W--> 133 Tyr Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu
 134 1 5 10 15

137 Xaa Xaa His Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa Xaa
 138 20 25

141 <210> SEQ ID NO: 3
 142 <211> LENGTH: 29
 143 <212> TYPE: PRT

144 <213> ORGANISM: Artificial

146 <220> FEATURE:

147 <223> OTHER INFORMATION: synthetic - zinc finger consensus

150 <220> FEATURE:

151 <221> NAME/KEY: misc_feature

152 <222> LOCATION: (2)..(2)

153 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

155 <220> FEATURE:

156 <221> NAME/KEY: misc_feature

157 <222> LOCATION: (4)..(6)

158 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

160 <220> FEATURE:

161 <221> NAME/KEY: misc_feature

162 <222> LOCATION: (8)..(10)

163 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

165 <220> FEATURE:

166 <221> NAME/KEY: misc_feature

167 <222> LOCATION: (12)..(16)

168 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

170 <220> FEATURE:

171 <221> NAME/KEY: misc_feature

172 <222> LOCATION: (18)..(19)

173 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

175 <220> FEATURE:

176 <221> NAME/KEY: misc_feature

177 <222> LOCATION: (21)..(23)

178 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

180 <220> FEATURE:

181 <221> NAME/KEY: misc_feature

182 <222> LOCATION: (25)..(29)

183 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

185 <400> SEQUENCE: 3

W--> 187 Phe Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa

188 1 5 10 15

191 Leu Xaa Xaa His Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa Xaa

192 20 25

195 <210> SEQ ID NO: 4

196 <211> LENGTH: 29

197 <212> TYPE: PRT

198 <213> ORGANISM: Artificial

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Input Set : A:\sequence listing.txt

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200 <220> FEATURE:
201 <223> OTHER INFORMATION: synthetic - zinc finger consensus
204 <220> FEATURE:
205 <221> NAME/KEY: misc_feature
206 <222> LOCATION: (2)..(2)
207 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
209 <220> FEATURE:
210 <221> NAME/KEY: misc_feature
211 <222> LOCATION: (4)..(6)
212 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
214 <220> FEATURE:
215 <221> NAME/KEY: misc_feature
216 <222> LOCATION: (8)..(10)
217 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
219 <220> FEATURE:
220 <221> NAME/KEY: misc_feature
221 <222> LOCATION: (12)..(16)
222 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
224 <220> FEATURE:
225 <221> NAME/KEY: misc_feature
226 <222> LOCATION: (18)..(19)
227 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
229 <220> FEATURE:
230 <221> NAME/KEY: misc_feature
231 <222> LOCATION: (21)..(23)
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235 <221> NAME/KEY: misc_feature
236 <222> LOCATION: (25)..(29)
237 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
239 <400> SEQUENCE: 4
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242 1 5 10 15
245 Leu Xaa Xaa His Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa
246 20 25
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251 <212> TYPE: PRT
252 <213> ORGANISM: Artificial
254 <220> FEATURE:
255 <223> OTHER INFORMATION: synthetic - zinc finger consensus
258 <220> FEATURE:
259 <221> NAME/KEY: misc_feature
260 <222> LOCATION: (2)..(2)
261 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
263 <220> FEATURE:
264 <221> NAME/KEY: misc_feature
265 <222> LOCATION: (4)..(7)
266 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

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Input Set : A:\sequence listing.txt
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268 <220> FEATURE:
 269 <221> NAME/KEY: misc_feature
 270 <222> LOCATION: (9)..(11)
 271 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 273 <220> FEATURE:
 274 <221> NAME/KEY: misc_feature
 275 <222> LOCATION: (13)..(17)
 276 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 278 <220> FEATURE:
 279 <221> NAME/KEY: misc_feature
 280 <222> LOCATION: (19)..(20)
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 285 <222> LOCATION: (22)..(24)
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 289 <221> NAME/KEY: misc_feature
 290 <222> LOCATION: (26)..(30)
 291 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 293 <400> SEQUENCE: 5
 W--> 295 Phe Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa
 296 1 5 10 15
 299 Xaa Leu Xaa Xaa His Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa
 300 20 25 30
 303 <210> SEQ ID NO: 6
 304 <211> LENGTH: 30
 305 <212> TYPE: PRT
 306 <213> ORGANISM: Artificial
 308 <220> FEATURE:
 309 <223> OTHER INFORMATION: synthetic - zinc finger consensus
 312 <220> FEATURE:
 313 <221> NAME/KEY: misc_feature
 314 <222> LOCATION: (2)..(2)
 315 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 317 <220> FEATURE:
 318 <221> NAME/KEY: misc_feature
 319 <222> LOCATION: (4)..(7)
 320 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 322 <220> FEATURE:
 323 <221> NAME/KEY: misc_feature
 324 <222> LOCATION: (9)..(11)
 325 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 327 <220> FEATURE:
 328 <221> NAME/KEY: misc_feature
 329 <222> LOCATION: (13)..(17)
 330 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 332 <220> FEATURE:
 333 <221> NAME/KEY: misc_feature

RAW SEQUENCE LISTING ERROR SUMMARY
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Input Set : A:\sequence listing.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 4,5,7,8,9,11,12,13,14,15,17,18,20,21,22,24,25,26,27,28
 Seq#:2; Xaa Pos. 4,5,7,8,9,11,12,13,14,15,17,18,20,21,22,24,25,26,27,28
 Seq#:3; Xaa Pos. 4,5,6,8,9,10,12,13,14,15,16,18,19,21,22,23,25,26,27,28
 Seq#:3; Xaa Pos. 29
 Seq#:4; Xaa Pos. 4,5,6,8,9,10,12,13,14,15,16,18,19,21,22,23,25,26,27,28
 Seq#:4; Xaa Pos. 29
 Seq#:5; Xaa Pos. 4,5,6,7,9,10,11,13,14,15,16,17,19,20,22,23,24,26,27,28
 Seq#:5; Xaa Pos. 29,30
 Seq#:6; Xaa Pos. 4,5,6,7,9,10,11,13,14,15,16,17,19,20,22,23,24,26,27,28
 Seq#:6; Xaa Pos. 29,30
 Seq#:7; Xaa Pos. 1,3,4,5,6,8
 Seq#:8; Xaa Pos. 3,5,6,7,8,10
 Seq#:19; Xaa Pos. 1,2,4,5,6,7,9,10
 Seq#:20; Xaa Pos. 1,4,5,6,8,9,10,11,12
 Seq#:21; Xaa Pos. 1,4,5,6,8,9,10,11,12,14
 Seq#:22; Xaa Pos. 1,4,5,6,8,9,10,11,12,14,15
 Seq#:23; Xaa Pos. 1,4,5,6,8,9,10,11,12,14,15,16
 Seq#:24; Xaa Pos. 1,4,5,6,8,9,10,11,12,14,15,16,17
 Seq#:25; Xaa Pos. 1,4,5,6,8,9,10,11,12,14,15,16,17,18
 Seq#:26; Xaa Pos. 1,2,5,6,7,9,10,11,12,13
 Seq#:27; Xaa Pos. 1,2,5,6,7,9,10,11,12,13,15
 Seq#:28; Xaa Pos. 1,2,5,6,7,9,10,11,12,13,15,16
 Seq#:29; Xaa Pos. 1,2,5,6,7,9,10,11,12,13,15,16,17
 Seq#:30; Xaa Pos. 1,2,5,6,7,9,10,11,12,13,15,16,17,18
 Seq#:31; Xaa Pos. 1,2,5,6,7,9,10,11,12,13,15,16,17,18,19
 Seq#:32; Xaa Pos. 1,2,5,6,7,8,9,11,12,13,14,16,17,18,19,22
 Seq#:34; Xaa Pos. 2,3,4,5,6,7,9,10,11,12,13,14,17,18,20,21,22,23
 Seq#:35; Xaa Pos. 2,3,4,5,6,7,9,10,11,12,13,14,17,18,19,21,22,23,24
 Seq#:36; Xaa Pos. 2,3,4,5,6,7,9,10,11,12,13,14,17,18,20,21,22,23,24
 Seq#:37; Xaa Pos. 2,3,4,5,6,7,9,10,11,12,13,14,17,18,19,21,22,23,24,25
 Seq#:38; Xaa Pos. 2,3,4,5,6,7,9,10,11,12,13,14,17,18,20,21,22,23,24,25
 Seq#:39; Xaa Pos. 2,3,4,5,6,7,9,10,11,12,13,14,17,18,19,21,22,23,24,25,26
 Seq#:40; Xaa Pos. 5,6,7,8,9,10
 Seq#:41; Xaa Pos. 5,6,7,8,9,10
 Seq#:42; Xaa Pos. 4,6,7,8,9,10,11
 Seq#:88; Xaa Pos. 1,2,3,4,5,6
 Seq#:89; N Pos. 1,2,7,8,10,11,13,14,16,17,22,23
 Seq#:107; N Pos. 5,7,8
 Seq#:123; N Pos. 21,22,24,25,27,28
 Seq#:124; N Pos. 21,22,24,25,27,28,30,31,33,34
 Seq#:125; N Pos. 21,22,24,25,27,28,30,31,33,34,36,37,39,40
 Seq#:127; N Pos. 29,30,32,33,35,36
 Seq#:128; N Pos. 29,30,32,33,35,36,38,39,41,42
 Seq#:129; N Pos. 29,30,32,33,35,36,38,39,41,42,44,45,47,48

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Seq#:143; N Pos. 10,11,12,13,14,15,18,19,20,21,27,28,29,30,33,36,39,42,45
Seq#:143; N Pos. 46,47,48,51,54,58,59,60,61,62,63,69,70,71,72,75,85,86,87
Seq#:143; N Pos. 93,96,102,105,108,117,118,119,120,129,144,150,153,154,155
Seq#:143; N Pos. 156,165,171,177,180,184,185,186,189,193,194,195,208,209
Seq#:143; N Pos. 210,213,228,231,237,240,243,246,252,261,264,270,273,280
Seq#:143; N Pos. 281,282,283,284,285,291,292,293,294,297,300,312,318,324
Seq#:143; N Pos. 330,333,336,342,345,348,351,357,364,365,366,381,382,383

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
Seq#:28,29,30,31,32,34,35,36,37,38,39,40,41,42,43,45,46,47,48,49,50,51,52,53
Seq#:54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77
Seq#:78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101
Seq#:102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119
Seq#:120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137
Seq#:138,139,140,141,142,143,145,146,149,150,151,152,153,154,179,180,181,182
Seq#:183,184,185,186,187,188,189,190,191,192,193,194,195,196,197,198,199,200
Seq#:201,202,203,204,205,206,207,208,209,210,211,212,213,214,215,216,217,218
Seq#:219,220,221,222,223,224,225,226,227,228,229,230,231,232,233,234,235,236
Seq#:237,238,239,240,241,242,243,244,245,246,247,248,249,250,251,252,253,254
Seq#:255,256,257,258,259,260,261,262,263,264,265,266,267,268,269,270,271,272
Seq#:273,274

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L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
M:341 Repeated in SeqNo=1
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
M:341 Repeated in SeqNo=2
L:187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
M:341 Repeated in SeqNo=3
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
M:341 Repeated in SeqNo=4
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
M:341 Repeated in SeqNo=5
L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
M:341 Repeated in SeqNo=6
L:383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:683 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:718 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:753 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
M:341 Repeated in SeqNo=24
L:792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
M:341 Repeated in SeqNo=25
L:826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:861 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:896 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:931 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
M:341 Repeated in SeqNo=29
L:970 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
M:341 Repeated in SeqNo=30
L:1009 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
M:341 Repeated in SeqNo=31
L:1053 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
M:341 Repeated in SeqNo=32
L:1107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
M:341 Repeated in SeqNo=34
L:1146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
M:341 Repeated in SeqNo=35
L:1185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
M:341 Repeated in SeqNo=36
L:1224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
M:341 Repeated in SeqNo=37
L:1263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
M:341 Repeated in SeqNo=38
L:1302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
M:341 Repeated in SeqNo=39
L:1326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:1346 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0

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L:1371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0

L:2547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88 after pos.:0